

### Setting Up

Your Beocord 2400 is designed for horizontal placement on a desk or in a wall of shelves. The depth dimension inclusive of leads and plugs is 29 cm. The width dimension is 41 cm. Avoid placing your Beocord directly above a radiator, where the temperature is considerably higher than in the rest of the room.

### Mains

The Beocord is designed for 240 volts AC, 50 Hz.

### For the UK market only. Important

The wire in this mains lead are coloured in accordance with the following code:

**Blue: Neutral**  
**Brown: Live.**

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician. This set requires a **3 Amp.** fuse in the mains plug.



### Connecting the Beocord to a Radio set

Plug the 0961014 cable which is provided into the AMPLIFIER socket on the back of your Beocord and the TAPE socket of the radio set or amplifier.

### Dolby Noise Reduction\*

Dolby noise reduction is a function to reduce tape selfnoise, which can be troublesome during reproduction of weak sounds and during pauses in the music. The system operates during both record and playback, and many of the commercially available recorded tapes have been recorded with Dolby noise reduction. The principle is that weak tones in the treble range are accentuated during the recording process, and during playback a commensurate reduction is made of the same tone range, and hence also of the noise level in that range.

If you know in advance that tape cassette is to be played back on another tape recorder which does not have built-in Dolby noise reduction, you should make your recording without the Dolby function cut in.

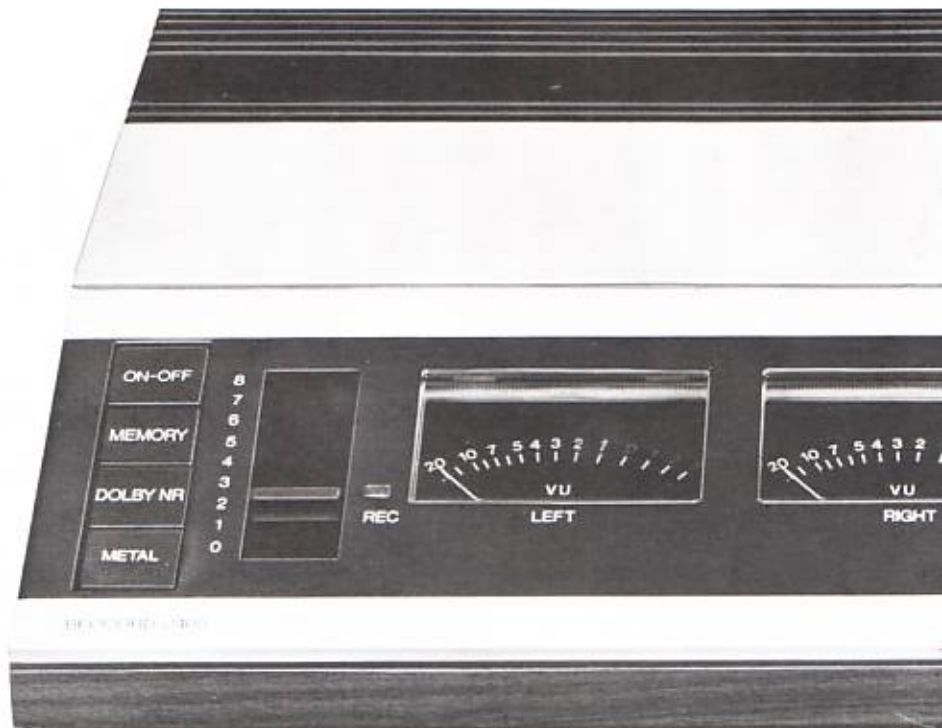


### MIC

Your Beocord has provision for connection of a low-impedance microphone, mono or stereo, balanced or unbalanced. The socket is placed under the sliding lid MIC.

All recordings will be mono, and recording from radio or record player is cut off automatically.

\*Trademark of Dolby Laboratories Inc.



#### ON-OFF

To switch on your Beocord, depress ON. To switch off, press the same button again.



BEOCORD 2400

#### MEMORY

Automatic stop during rewind every time the counter passes 000. Is operative when the MEMORY button is depressed, and the counter is placed on zero.

#### DOLBY NR

Noise reduction system which functions on both record and playback. Depress button when playing Dolby NR recordings and when you yourself want to make Dolby NR recordings. Button should be left released during playback of non-Dolby NR recordings.

#### Choice of tape type

Adjustment is automatic for Ferro and Chrome tapes. Depress METAL key when playing back or recording on Metal tape.

-  Forward tape motion, play and record
-  Rewind
-  Fast forward

#### Automatic Stop

When the tape of a cassette has finished, forward tape motion stops automatically. The same applies after rewind and fast forward.



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#### Stop-eject

Tape stops the first time STOP is pressed. Pressing STOP a second time opens the cassette holder, EJECT.

#### PAUSE

Pause during forward tape motion: Tape stops the first time PAUSE is pressed. Tape motion continues when button is pressed again. The pause feature may be used during both playback and record.



#### RECORD

First you select program on the receiver: FM, AM, or gramophone. Keep the RECORD button depressed and thereafter depress forward button. Move the sliding knob REC forward while at the same time reading the two VU-meters.

The deflection should normally be held just below 0 dB, but may in short powerful passages pass the red + figures.

You may depress the PAUSE button while presetting the recording level as described, before beginning to record.



#### VU-Meters

The two VU-meters are adjusted so that VU 0 dB corresponds to the standardized Dolby NR level (200 pWb). Without Dolby NR, recording can take place until +2 dB at the VU-meters (250 pWb at 3% distortion).

#### Balance

Under the same sliding lid where microphone socket is placed, you will find a balance button.

#### Tape

This Beocord is adjusted for tapes following European Standards (DIN). A large number of ferro tapes manufactured after other standards do exist. Several of these tapes will accentuate the treble range when recording. However, chrome tapes or tapes with chrome features are more uniformed.



Ferro-chrome tapes, with double magnetic coating often give the best result when recording like ferro-tapes and replayed like chrome tapes.

#### Tape Counter

The tape recorder has a three figure resettable counter. To reset, press the top of the counter.

Counter readout is orientative and intended for notes, e.g. on the tape cassette proper. The figures have no direct relation to playing times in minutes, but depend on tape thickness and cassette type, C60 or C90. The following time table can therefore be considered as normative.



#### Maintenance

**Tape heads.** To secure pure clear sound quality, the two magnet

heads must be kept free from tape dust. Use one of the commercially available cleaning.

With the cassette holder open and no tape cassette inserted rub the two heads with a wad of cotton wrapped around a match-stick and dipped in the cleaning agent.

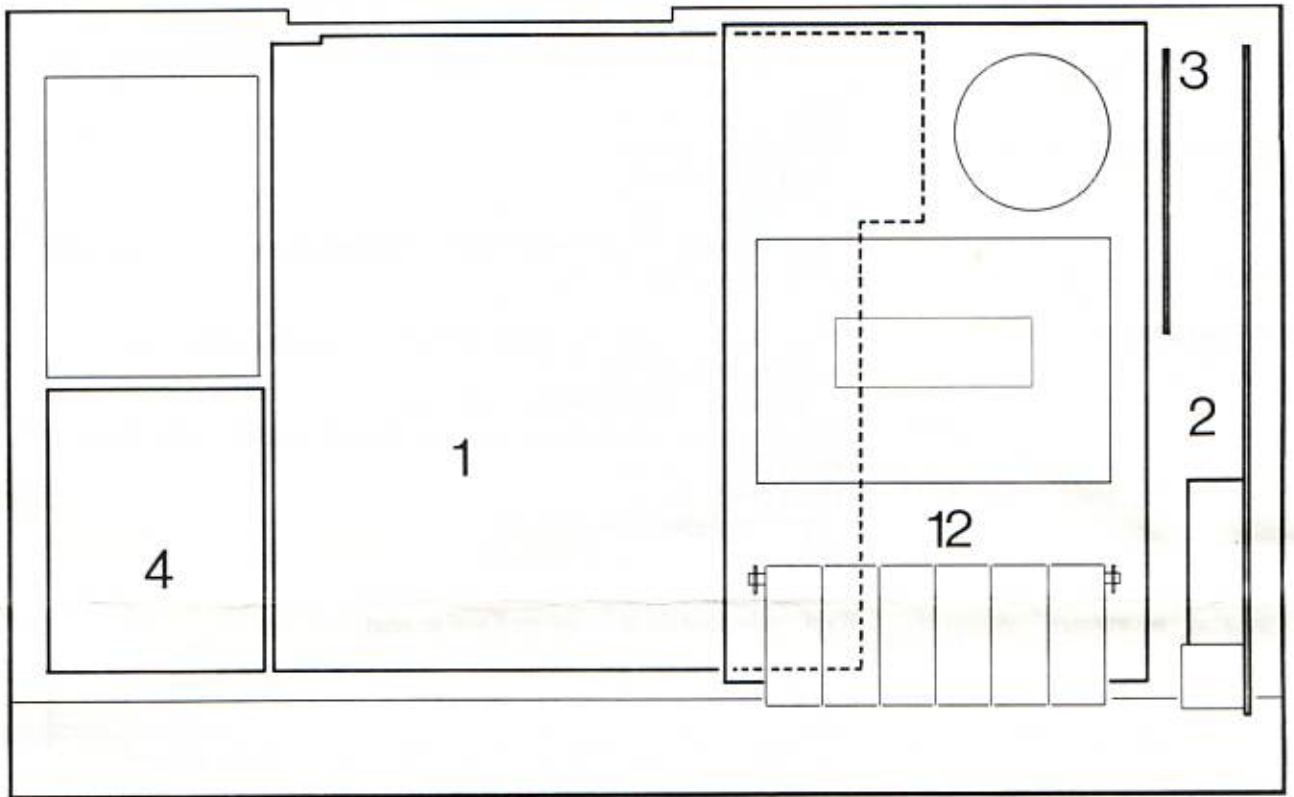
#### Metal Surfaces

The external surfaces of your Beocord can normally be kept clean with a dry cloth. Any grease spots can be removed with a soft cloth moistened with cold or lukewarm solution of detergent in water, followed by thorough drying with a dry cloth. Use of alcohol is inadvisable as this may cause damage to the transparent portions of the cursors and the VU meters.

#### TECHNICAL DATA

	Type No. 2663
Beocord 2400	C46 - C60 - C90
Compact cassette	Sendust
Tape head	Dolby NR
Noise reduction	Aut. ferro/chrom, manual metal
Tape switch	< ± 0.15%
Wow and flutter DIN	< 0.09%
Wow and flutter WRMS	< ± 1%
Speed deviation	90 sec.
Fast forward and rewind C60	30-16,000 Hz ± 3 dB with MPX filter
Frequency range metal/chrom/ferro	> 66 dB
Signal-to-noise ratio metal Dolby NR	> 64 dB
Signal-to-noise ratio chrom Dolby NR	> 62 dB
Signal-to-noise ratio ferro Dolby NR	> 59 dB
Signal-to-noise ratio metal	> 57 dB
Signal-to-noise ratio chrom	> 55 dB
Signal-to-noise ratio ferro	> 35 dB
Channel separation	> 70 dB
Erasure	96 kHz
Erasure frequency	1 mV/10 kohms
Radio input DIN	0.3 mV/3.3 kohms
Microphone input DIN	700 mV/10 kohms
Radio output DIN	220 V (110-130-240 V)
Power supply	50 Hz
Power frequency	20 W
Power consumption	40 x 8 x 25 cm
Dimensions W x H x D	5 kg
Weight	

Subject to change without notice



## MÅLEBETINGELSER

DC spændinger er målt i forhold til stel, med voltmeter med en indgangsmo-stand på 11 Mohm, DC spændinger er opgivet i volt (V).

AC spændinger i gengive stilling med pegel bånd (333 Hz 250 pWb mm)

1TP1/1TP4 35 mV

1TP3/1TP6 725 mV

1TP7/1TP8 2500 mV

1TP9 stilling Rec. Cr. 53 V 96 kHz.

Signalvejen i optage position er vist i højre kanal, og gengive position er vist i venstre kanal.

## MEASURING CONDITIONS

DC voltages have been measured in relation to ground with voltmeter with an input resistance of 11 Mohms. DC voltages are stated in volts (V).

AC voltages in position play back with play back level tape (333 Hz 250 pWb mm).

1TP1/1TP4 35 mV

1TP3/1TP6 725 mV

1TP7/1TP8 2500 mV

1TP9 position rec. Cr. 53 V 96 kHz.

The signal path in position record is shown in right channel, and position play back is shown in left channel.

## MESSBEDINGUNGEN

DC Spannungen sind im Verhältnis zu Masse, mit Voltmeter mit einem Eingangswiderstand von 11 Mohm gemessen.

DC Spannungen sind in Volt (V) angegeben.

AC Spannungen in Wiedergabeposition mit Pegelband (333 Hz 250 pWb mm).

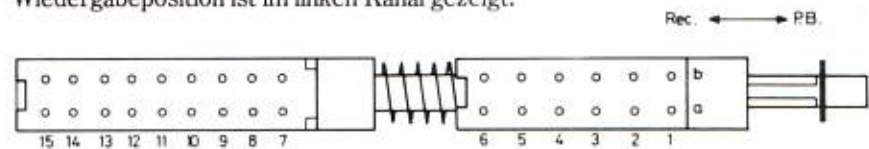
1TP1/1TP4 35 mV

1TP3/1TP6 725 mV

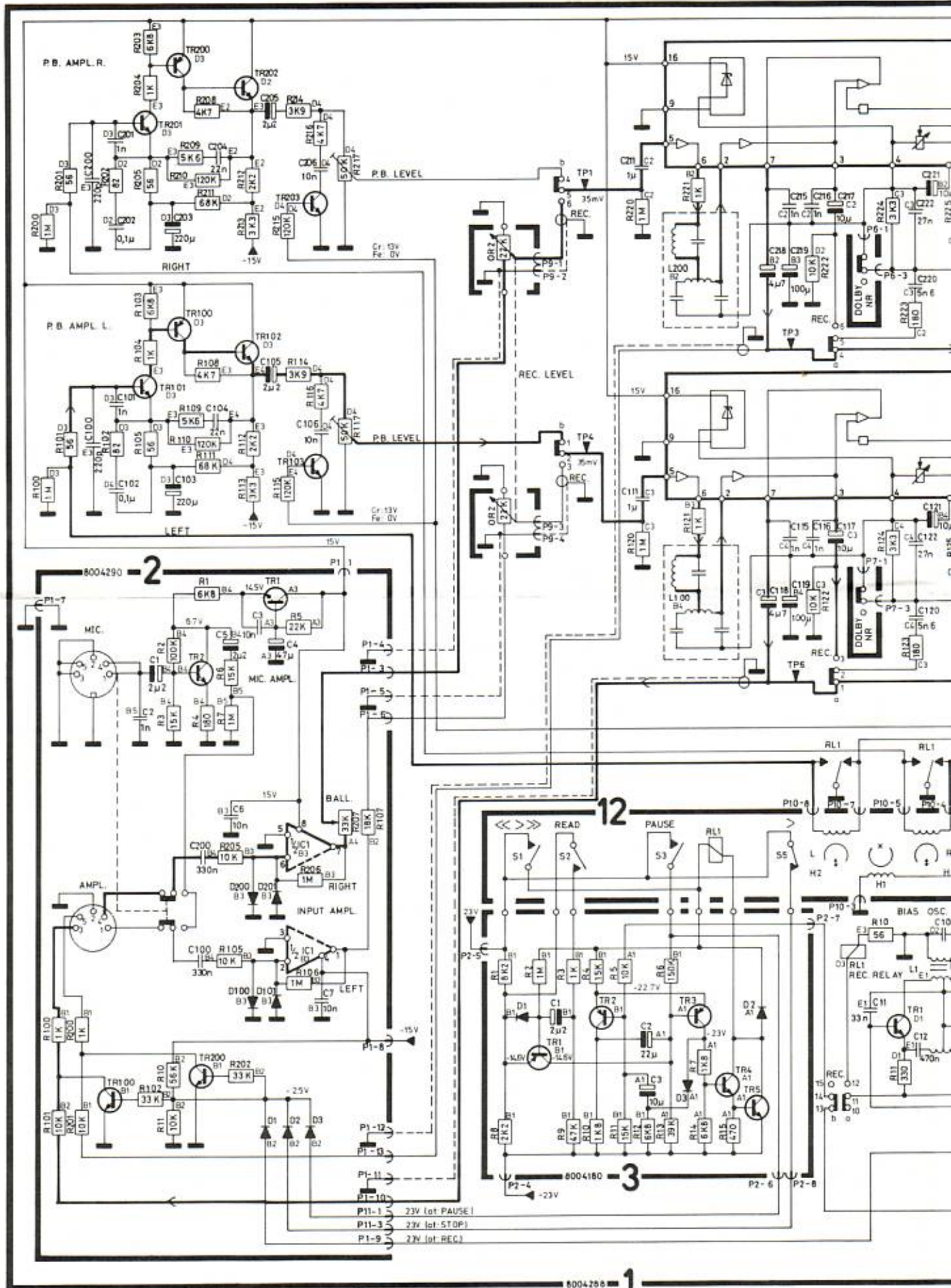
1TP7/1TP8 2500 mV

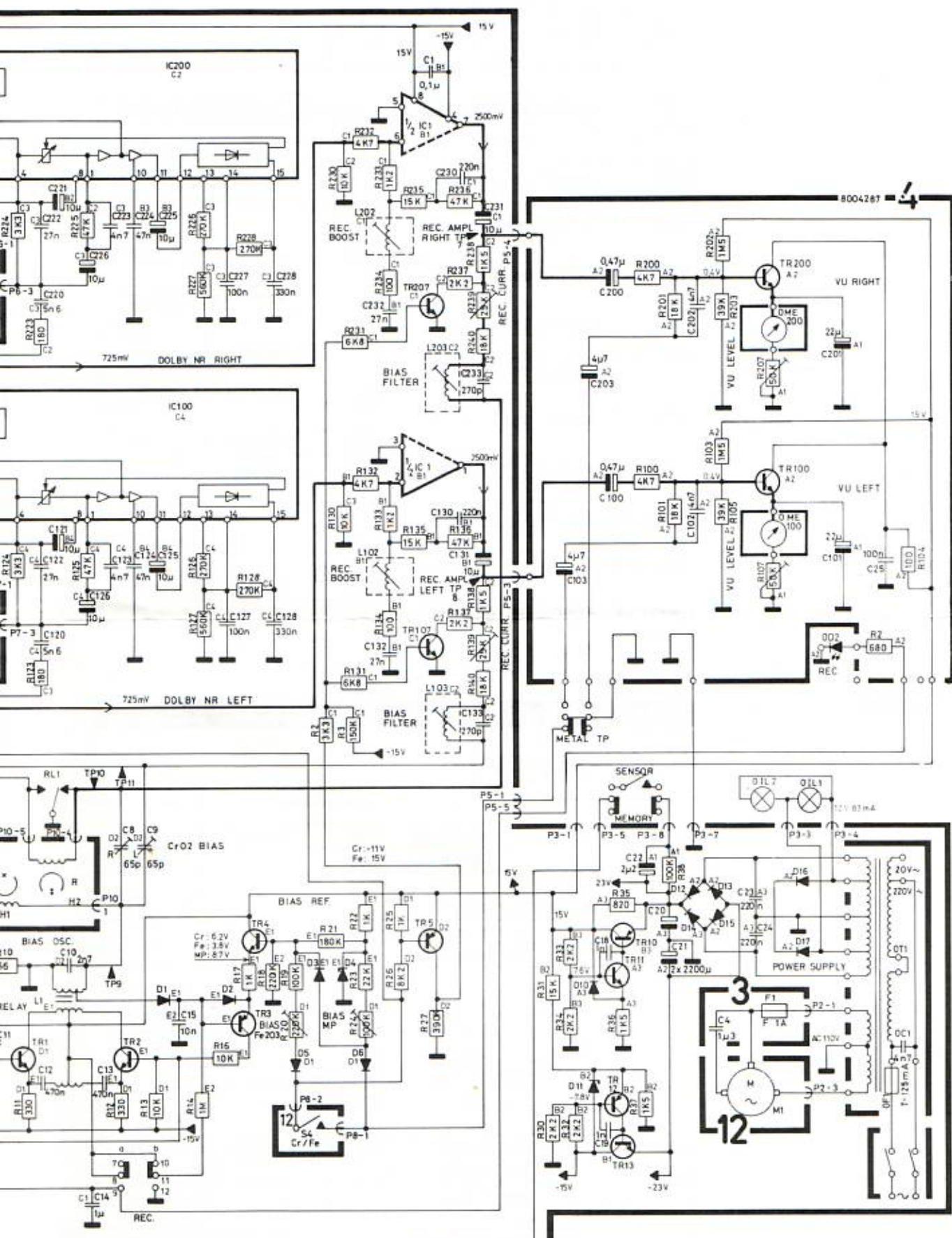
1TP9 Position Rec. Cr. 53 V 96 kHz.

Der Signalweg in Aufnahme position ist im rechten Kanal gezeigt, und die Wiedergabeposition ist im linken Kanal gezeigt.



# Bang & Olufsen





Noise reduction system manufactured under license from Dolby Laboratories  
 Dolby and the double-D symbol are trade marks of Dolby Laboratories.

OT1 soldered for:  
 Type:  
 2663 220V  
 2665 240V

**LIST OF TRANSISTORS  
AND IC's**

19	20	31	32	101	103		
1TR1	8320237	20	BC 546B	1TR107/207	8320366	19	MPS A16
1TR2				1IC1	8340294	103	LF 353BN
1TR3	8320152	20	BC 557B	1IC100/200	8340183	101	LM 1011AN
1TR4	8320097	20	BC 547B	2TR1	8320097	20	BC 547B
1TR5	8320152	20	BC 557B	2TR2	8320344	20	BC 550B
1TR10	8320369	31	BD 534	2TR100/200	8320097	20	BC 547B
1TR11	8320097	20	BC 547B	2IC1	8340195	103	LF 353BN
1TR12	8320152	20	BC 557B	3TR1	8320152	20	BC 557B
1TR13	8320368	31	BD 533	3TR2			
1TR100/200	8320152	20	BC 557B	3TR3			
1TR101/201	8320344	20	BC 550B	3TR4	8320323	19	MPS A05
1TR102/202	8320097	20	BC 547B	3TR5	8320292	32	BD 137/W
1TR103/203				4TR100/200	8320377	20	BC 547C

**LIST OF DIODES**

209	215	217					
0D2	8330058	CQV 36 TSN V-510-P	1D12	8300023	209	1N4002/RL	
1D1	8300058	217 SFD 184	1D13				
1D2		215 1N 4148	1D14				
1D3		209 1N 4148	1D15				
1D4	8300218	209 ZPD 13V 5% 209 BZX 79C 13V0 209 BZX 83C 13V0	1D16				
1D5	8300058	217 SFD 184	1D17				
1D6		215 1N 4148 209 1N 4148	2D1	8300058	217	SFD 184	
1D10	8300173	209 ZPD 8.2V5%	2D2		215	1N 4148	
1D11		209 BZX 79C8V2 209 BZX 83C8V2	2D3		209	1N 4148	
			2D100/200				
			2D101/201				
			3D1	8300058	217	SFD184 215 1N 4148 209 1N 4148	
			3D2	8300023	209	1N 4002/RL	
			3D3	8300058	217	SFD 184 215 1N 4148 209 1N 4148	